

Instructions for Shipping Sputum Sample to Bayer Diagnostics

Required Components (supplied):

Screw-cap aluminum can measuring 3" x 6"

Two-piece foam insert

Clear plastic zip-lock bag

Absorbent paper

Corrugated carton

Sterile Specimen Container with Saccomanno's Preservative

Packaging instructions

Package Sealing Tape 2" x 6"

Directions:

- j) Remove foam container from corrugated carton.
- 2) Open foam container
- 3) Remove aluminum can from foam container.
- 4) Open screw-cap aluminum can.
- 5) Wrap absorbent paper around sealed cup containing sputum sample in Saccomanno's fixative.
- 6) Insert cup wrapped with absorbent paper into aluminum can.
- 7) Put the top back on the can, screwing tightly.
- 8) Insert can in the plastic bag and seal zipper closure.
- 9) Place the can in the foam cradle with excess bag above can; cover with second half of foam.
- 10) Insert foam cradle into corrugated carton and seal carton with tape.
- 11) Call courier for pickup of the package.

(Note, here we generally give phone number for local courier or Fed Ex. The external package will already have address labels and shipping papers prepared by the site where the patient was enrolled in the study).

ORDER # 125459

CUSTOMER CHIRON DIAGNOSTICS-NAD

PO# 1070

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PRODUCT NAME SACCOMANNO FIXATIVE

MATERIAL SAFETY DATA SHEET

Manufacturer% POLY SCIENTIFIC R&D CORP.
70 CLEVELAND AVE.
BAY SHORE, NY 11706
(SIG) 586-0400

Emergency Chemtrec: 1-800-424-9300

Date Prepared: OCT 14 1998

Date Printed: JAN 22 1999

Hazardous Materials Identification System Ratings (Hmis)

Flammability-	3	Key:	0 - minimal Hazard
Health:	3		1 - Slight Hazard
Reactivity:	0		2 - Moderate Hazard.
Personal			3 - Serious Hazard
Protection Equipment:	G		4 - Severe Hazard

SECTION I - IDENTITY

----- I -----
Common Name:(used on label) SACCOMANNO FIXATIVE

Chemical Name(s)- POLYETHYLENE GLYCOL 1450; DENATURED ETHANOL
Chemical Family: POLYMERS; ALCOHOLS
Formula: N/A

SECTION IA - PRECAUTIONS

SECTION 2 - HAZARDOUS INGREDIENTS (Components, CAS #S, TLVS and Toxicity Data)

DENATURED ETHANOL CONTAINS THE FOLLOWING:

ETHYL ALCOHOL	CAS#64-17-S OSHA PEL/TWA: 1000PPM; ACGIH TLV/TWA: 1000PPM ORAL-RAT LD50: 7060 MG/KG; INHALATION-RAT LC50: 20000PPM/10HR SKIN-RABBIT 500MG/24HR(SEVERE IRRIT); ORAL-MM TDLO: 50MG/KG
METHYL ALCOHOL	CAS#67-56-1 OSHA PEL/TWA: 200PPM; ACGIH TLV/TWA 200PPM(SKIN) ACGIH STEL: 250PPM(SKIN); ORAL-RAT LD50: 5628 MG/KG SKIN- RABBIT 500MG/24HR(MOD IRRIT), ORAL-HUMAN LDLO143 MG/KG INHALATION-RAT LC50: 64000PPM/4HRS. HUMAN MUTAGENIC DATA.
ISOPROPYL ALCOHOL	CAS#67-63-0 OSHA PEL/TWA: 400PPM, ACGIH TLV/TWA: 400PPM

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HAZARDOUS INGREDIENTS - continued

ACGIH STEL: 500PPM; ORAL-RAT LD50: 5045 MG/KG INRAL-
RAT LCLo; 1200PPM/8HRS; SKIN-RABBIT 500MG (MILD)
METHYL ISOBUTYL KETONE CAS#108-10-1 OSHA
PEL/TWA:50PPM. ACGIH TLV/TKA
.50PPM.

ACGIH STEL: 75PPM; SKIN-RABBIT 500MG/24HRS(MILD)
ORAL-RAT LD50: 2080MG/KG; INHAL-RAT LC50:
800PPM/4HRS

VALUES FROM OSHA 29 CFR 1910.1000 TABLE Z-1-A S, ACGIH 1988-89
POLYETHYLENE GLYCOL 1480 (CARBOWAX) CAS#2.5322-68-3 NO OCCUPATIONAL
EXPOSURE
LIMITS ESTABLISHED BY OSHA, ACGIH OR NIOSH.
INTRAPERITONEAL-
RAT LD50-z 14.7 GM/KG. ORAL-MOUSE LD50: 29.2 GM/KG.
INTRAVENOUS-PAT LD50: 7312 MG/KG. I.P.-MOUSE LD50:
14.SGM/KG
CARCINOGEN STATUS: NONE.

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS (Fire & Explosion Data)

Note. QUANTITATIVE DATA BELOW IS FOR DENATURED ETHANOL.

Boiling Point Specific Gravity Vapor Pressure (MM Hg) 76-80 C 0.791 20C 52

-----Volatile By Volume Vapor
Density(Air=1) Evaporation Rate(n-Butyl Acetate=1
100 1.6 3.8

Solubility in water Reactivity in water Auto Ignition Temp YES NO NIA

-----Appearance and Odor CLEAR
COLORLESS, PLEASANT ODOR

-----Flash Point Flammable Limits in
Air(t by volume)
S6F(CC) Lower 3.3 Upper 19

-----Extinguisher Media USE DRY
CHEMICAL, FOAM, OR CARBON DIOXIDE TO EXTINGUISH THE FIRE. WATER MAY BE
INEFFECTIVE, BUT WATER SHOULD BE USED TO KEEP FIRE EXPOSED CONTAINERS
COOL.

Special Fire Fighting Procedures

WEAR SELF CONTAINED BREATHING APPARATUS. VAPORS ARE EXPLOSIVE ABOVE
FLAMMABLE LIMITS WHEN EXPOSED TO HEAT, SPARKS OR FLAME. CONTACT WITH
STRONG OXIDANTS MAY CAUSE FIRES AND EXPLOSION.

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Special Fire Fighting Procedures - continued

VAPORS FORM FROM THIS PRODUCT AND MAY TRAVEL OR BE MOVED BY AIR CURRENTS TO DISTANT IGNITION SOURCES.

Unusual Fire and Explosive Hazards

WARNING: HOT ORGANIC CHEMICAL VAPORS OR MISTS ARE SUSCEPTIBLE TO SUDDEN SPONTANEOUS COMBUSTION WHEN MIXED WITH AIR. IGNITION MAY OCCUR AT TEMPS. BELOW THOSE PUBLISHED IN THE LITERATURE AS "AUTO IGNITION" TEMPS. IGNITION TEMPS. DECREASE W/ INCREASING VAPOR VOLUME AND VAPOR/AIR CONTACT TIME AND ARE INFLUENCED BY PRESSURE CHANGES. ANY PROPOSED USE OF THIS PRODUCT IN ELEVATED TEMP. PROCESSES SHOULD BE THOROUGHLY EVALUATED FOR SAFE METHODS.

SECTION 4 - PHYSICAL HAZARDS

Stability STABLE Conditions to Avoid EXCESSIVE HEAT, SPARKS AND FIRE

-----Incompatibility (Materials to Avoid)
ACIDS, BASES, OXIDIZERS, CALCIUM CARBIDE, MAGNESIUM, CYANURIC CHLORIDE, NITRIC ACID, BROMINE, HYDROGEN PEROXIDE, SULFURIC ACID.

-----Hazardous Decomposition Products
CARBON MONOXIDE AND CARBON DIOXIDE

Hazardous Polymerization: WILL NOT OCCUR
Conditions to Avoid; N/A

SECTION 5 - HEALTH HAZARDS

- Signs and Symptoms of Exposure
1. Inhalation: MAY CAUSE DIZZINESS, DROWSINESS, NAUSEA AND VOMITING.
 2. Eye Contact: MINOR IRRITATION
 3. Skin Contact: NO EVIDENCE OF ADVERSE EFFECTS FROM AVAILABLE

INFORMATION.

4. Ingestion: CAUSES DIZZINESS, DROWSINESS, DECREASED REACTION, EUPHORIA, NAUSEA, VOMITING, STAGGERING GAIT, AND COMA.

-----Medical Conditions Aggravated by
Exposure
N/A

Emergency and First Aid Procedures

1. Inhalation: MOVE PERSON TO FRESH AIR. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION IMMEDIATELY.

2. Eye Contact; FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES

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-----2. Eye Contact - continued

WHILE LIFTING UPPER & LOWER LIDS. GET MEDICAL ATTU IMMEDIATELY.

3. Skin Contact:REMOVE CONTAMINATED CLOTHING & SHOES. WASH WITH SOAP &
LARGE
AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION
IMMEDIATELY

4. Ingestion: GIVE TWO GLASSES OF WATER AND INDUCE VOMITING1 CALL A
PHYSICIAN!!

SECTION 6 - SPECIAL PROTECTION INFORMATION

Respiratory Protection SELF CONTAINED BREATHING APPARATUS IN HIGH CONCEN-
TRATIONS.

-----Ventilation USE LOCAL
VENTILATION WHEN VAPORS ARE EXPECTED TO ESCAPE TO THE WORKPLACE AIR.

Protective Gloves RUBBER

Eye Protection SAFETY GLASSES

-----Other Protective Clothing or
Equipment
EYE WASH STATION, SAFETY SHOWER, PROTECTIVE APRON

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL PROCEDURES

Precaution to be Taken in Handling and Storage

KEEP AWAY FROM HEAT, SPARKS, AND FLAME. KEEP CONTAINER TIGHTLY
CLOSED.USE WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. FOR
INDUSTRIAL USE ONLY. PROTECT FROM PHYSICAL DAMAGE.

Steps to be Taken in Case Material is Spilled or Released

EXTINGUISH AND DO NOT TURN ON ANY IGNITION SOURCE UNTIL AREA IS
DETERMINED

TO BE FREE FROM EXPLOSION OR FIRE HAZARDS. TAKE UP SPILLS WITH ABSORBENT MATERIAL AND CONTAINERIZE FOR PROPER DISPOSAL-

SECTION 8 - REGULATORY STATUS

Hazard Categories for SARA
Section 311/312 Reporting

Acute Chronic Fire Pressure Reactive

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Hazard categories for SARA - continued

Product or Components of Product:	Sec.302 RQ TPQ	SARA EHS			SARA Sec.313 Chemicals			CERCLA RCRA	
		No	Yes	List	Category	RQ	lbs	Sec.103	Sec.261.33
ETHANOL 64175		No	No	No	NO			NO	No
METHANOL 67561		No	NO	Yes	No			Yes	Yes
ISOPROANOL 67631		No	No	NO	No			No	NO
ISQPROPANOL 67631		NO	NO	NO	NO			NO	No
POLYETHYLENE GLYCOL 25322683		No	No	No	No			No	No

SARA Section 302 EHS RQ:

Reportable Quantity of Extremely Hazardous Substance, listed at 40 CRF 355.

SARA Section 302 BES TPQ:

Threshold Planning Quantity of Extremely Hazardous substance. An asterisk following a Threshold Planning Quantity signifies that if the material is a solid and has a particle size equal to or larger than 100 micrometers, the

Threshold Planning Quantity = 10,000 LBS.

SARA Section 313 Chemicals:

Toxic Substances subject to annual release reporting requirements listed at 40 CFR 372.65.

CERCLA Sec.103:

Comprehensive Environmental Response, Compensation and Liability Act (Superfund)

Releases to air, land or water of these hazardous substances which exceed the Reportable Quantity (RQ) must be reported to the National Response Center,

(600-424-8802), Listed at 40 CFR 302.4

RCRA:

Resource Conservation and Reclamation Act. Commercial chemical product wastes designated as acute hazards and toxic under 40 CFR 261.33

Waste Disposal Methods COMPLY WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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